

### Claim Amendments:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A system for concurrent wireless voice and data communications comprising:

- (a) a first transceiving unit tethered to a voice network and to a data network;
- (b) a second, mobile transceiving unit;
- (c) the first transceiving unit operable to wirelessly transmit-combines and transmits to the second, mobile transceiving unit-independent of user control, voice information from the voice network over a first predefined set of time slots of a time frame and data information from the voice and the data network over a second predefined set of time slots of the time frame-respectively, and receives and separates voice and data information from the second, mobile transceiving unit and routes to the voice network and the data network, respectively; and,
- (d) the second, mobile transceiving unit combines and transmits to the first transceiving unit, voice and data information and receives and separates to receive and separate the voice information and the voice and data information from the first transceiving unit;

wherein the first transceiving unit is further operable to implement a channel comprising a plurality of time frames, including the time frame, wherein a carrier frequency of the channel changes in a pseudo random manneremploys multiple frequency, time division multiple access, time division duplex, channels that support concurrent wireless voice and data communications.

2. (Original) The system as recited in claim 1 wherein the data network is a V.90 modem coupled to a public switched telephone network.

3. (Original) The system as recited in claim 1 wherein the data network is an ISDN modem coupled to a public switched telephone network.

4. (Original) The system as recited in claim 1 wherein the data network is a DSL modem coupled to a public switched telephone network.

5. (Original) The system as recited in claim 1 wherein the data network is a cable modem coupled to a CATV system.

6. (Original) The system as recited in claim 1 wherein the data network is an Ethernet network.

Claims 7-24 (Canceled)

25. (Currently Amended) The system as recited in ~~claim 22~~claim 1 wherein a time slot containing data information further comprises a forward error correction code.

Claims 26-28 (Canceled)

29. (Currently Amended) The method as recited in ~~claim 27~~claim 39 wherein a time slot containing data information further comprises a forward error correction code.

Claims 30-35 (Canceled) .

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36. (New) The system as recited in claim 1 wherein the first transceiving unit is further operable to wirelessly receive from the second, mobile transceiving unit voice information over a third predefined set of time slots of a time frame and data information over a fourth predefined set of time slot of the time frame.

37. (New) The system of claim 36, wherein a number of time slots of the first predefined set of time slots is equal to a number of time slots of the third predefined set of time slots.

38. (New) The system of claim 37, wherein the number of time slots of the second predefined set of time slots is equal to a number of time slots of the fourth predefined set of time slots.

39. (New) The system of claim 38, wherein the number of time slots of the first predefined set of time slots is equal to the number time slots of the second predefined set of time slots.

40. (New) The system of claim 36, wherein a number of time slots of the first predefined set of time slots is different than a number of time slots of the third predefined set of time slots.

41. (New) The system of claim 40, wherein the number of time slots of the second predefined set of time slots is different than a number of time slots of the fourth predefined set of time slots.

42. (New) A method comprising:

transmitting voice information from a first transceiving unit over a first set of time slots associated with a first time frame of a wireless channel;  
transmitting data information from the first transceiving unit over a second set of time slots associated with the first time frame of a wireless channel;  
changing a transmit frequency of the wireless channel in a pseudo random manner.

43. (New) The method of claim 42 further comprising:

receiving voice information at the first transceiving unit over a third set of time slots associated with a first time frame of a wireless channel;  
receiving voice information at the first transceiving unit over a fourth set of time slots associated with the first time frame of a wireless channel.

44. (New) The method of claim 43, wherein a number of time slots associated with the first set of time slots is equal to a number of time slots associated with the third set of time slots.

45. (New) The method of claim 44, wherein a number of time slots associated with the second first set of time slots is equal to a number of time slots associated with the fourth set of time slots.

46. (New) The method of claim 45 wherein the number of time slots associated with the first set of time slots is equal to the number of time slots associated with the second set of time slots.

47. (New) The method of claim 42, wherein changing the transmit frequency further comprises changing the transmit frequency of the wireless channel in a pseudo random manner after a predetermined number of time frames.

48. (New) A system for concurrent wireless voice and data communications comprising a first transceiving unit tethered to a voice network and to a data network unit, the first transceiving unit operable to wirelessly transmit to a second transceiving unit voice information

from the voice network over a first predefined set of time slots of a time frame and data information from the data network over a second predefined set of time slots of the time frame, the first transceiving unit being further operable to implement a channel comprising a plurality of time frames, including the time frame, wherein a frequency of the channel at which the plurality of time frames is transmitted changes in a pseudo random manner.

49. (New) The system of claim 48 wherein the first transceiving unit is a mobile unit.

50. (New) The system of claim 48 wherein the frequency changes in a pseudo random manner between approximately 2401 MHz and 2480 MHz.

51. (New) The system of claim 50, wherein the time frame can be transmitted at one of 75 frequencies.

52. (New) A system for concurrent wireless voice and data communications comprising a first transceiving unit operable to wirelessly receive from a first transceiving unit voice information from a voice network over a first predefined set of time slots of a time frame and data information from a data network over a second predefined set of time slots of the time frame, the first transceiving unit further operable to implement a channel comprising a plurality of time frames, including the time frame, wherein a frequency of the channel at which the plurality of time frames is transmitted changes in a pseudo random manner.

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